

The electro-optical ...

S/070/63/008/001/008/024  
E132/E460

The rotation of the indicatrix is about 20 times that produced by the same field in ammonium dihydrogen phosphate. The latter (ADP) has, however, a much greater electro-optical effect when the field is in the Z-direction. There are 3 figures.

ASSOCIATION: Institut kristallografii AN SSSR  
(Institute of Crystallography AS USSR)

SUBMITTED: June 26, 1962

Card 3/3

L 12810-6<sup>3</sup> EWP(j)/EPF(c)/EWT(1)/EWT(m)/BDS AFFTC/ASD/ESD-3 Pg-4/  
Pr-4/Pi-4 GG/RM/WW/JW/IJP(C) S/0070/63/008/003/0482/0483 81  
ACCESSION NR: AP3000791 80

AUTHOR: Balyayev, L. M.; Vlokh, O. G.; Gil'varg, A. B.; Dobrzhanskiy, G. F.; Netesov, G. B.; Shamburov, V. A.; Shuvalov, L. A.

TITLE: Linear electrooptical effect in crystals of hexamethylenetetramine  
(urotropin) C sub 6 H sub 12 N sub 4

SOURCE: Kristallografiya, v. 8, no. 3, 1963, 482-483

TOPIC TAGS: hexamethylenetetramine, urotropin, electrooptical effect, ZnS, CuCl,  
electrooptical constant

ABSTRACT: This study was undertaken because the only two commonly employed  
crystals with sufficient electrooptical effect for practical use (ZnS and CuCl)  
are generally of unsatisfactory quality or are difficult to obtain. The authors  
obtained hexamethylenetetramine by sublimation in a vacuum and found it to form  
well-developed rhombic dodecahedrons. In polarized light the specimens exhibit  
a dark cross in the middle of the field and a black border about the edge, with  
four light areas in the centers of the four quadrants. When an electrical field  
was impressed at right angles to the direction of light propagation, voltages up  
to 10 kv, the light patches became dark and the dark areas lightened. This effect  
proved to be linear, the change depending on the applied voltage. Because of this  
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ACCESSION NR: AP3000791

linear effect it was impossible to determine precisely the electrooptical constant. A preliminary approximation was made, however, by measuring total transmission when the crystal was between crossed polarizing plates and by comparing this value with the voltage applied. Similar measurements were made through the central part of the dark cross. Results show hexamethylenetetramine to be as satisfactory as previously used material. It also has two other pass bands in the infrared region of the spectrum. Orig. art. has: 2 figures.

ASSOCIATION: Institut kristallografi AN SSSR (Institute of Crystallography, AN SSSR)

SUBMITTED: 02Feb63

DATE ACQ: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 2/2

ACCESSION NR: AP4024730

S/0109/64/009/003/0505/0513

AUTHOR: Shamburov, V. A.; Vlokh, O. G.

TITLE: Electrooptical effect in crystals and its application

SOURCE: Radiotekhnika i elektronika, v. 9, no. 3, 1964, 505-513

TOPIC TAGS: electrooptical effect, crystal, electrooptical crystal, SHF light modulation

ABSTRACT: A review based almost exclusively on Western sources is presented. A definition of the electrooptical effect in terms of variation of the crystal optical indicatrix is formulated. Four types of optical systems used for observation of the effect, light modulation and chopping are briefly described. Initial orientation of the crystal plate in the modulator optical system is discussed, as well as methods of applying the electric field to the crystal. Fourteen known electro-optical crystals are tabulated along with their electrooptical coefficients and

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ACCESSION NR: AP4024730

voltages required for  $\lambda/2$  paths difference at  $\lambda = 5,461 \text{ \AA}$  and 20C. Of these, the crystals of  $\text{NH}_4\text{H}_2\text{PO}_4$ ,  $\text{KH}_2\text{PO}_4$ ,  $\text{BaTiO}_3$ , and quartz are used for SHF modulation of light. Recommendations for further research on electrooptical crystals are given. Orig. art. has: 3 figures, 2 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 26Jan63

DATE ACQ: 10Apr64

ENCL: 00

SUB CODE: EC, GP

NO REF SOV: 009

OTHER: 045

Card 2/2

I. 15780-66 EWT(1)/EEC(k)-2/T IJP(c)

ACC NR: AP5026917

SOURCE CODE: UR/0185/65/010/010/1101/1118

AUTHOR: Vlokh, O. H.—Vlokh, O. G.

ORG: L'vov State University im. I. Franko (L'viv's'kyy derzhuniversytet)

TITLE: Deformation of optical indicatrices in quadratic and spontaneous electro-optical effects in crystals

SOURCE: Ukrayins'kyy fizichnyy zhurnal, v. 10, no. 10, 1965, 1101-1118

TOPIC TAGS: optic crystal, crystal symmetry, crystal optic property, electrooptic effect, Kerr effect, light polarization, piezoelectric crystal, ferroelectric crystal, electric field

ABSTRACT: Starting from the tensors of the quadratic electro-optical effect, equations are obtained for the optical indicatrices deformed by an electric field acting in the most important directions of crystals of 32 crystal symmetry classes, in which spontaneous polarization and antipolarization arise in the corresponding directions with possible ferroelectric and antiferroelectric phase transitions. Expressions are also obtained for the orientation of the new optical indicatrix with respect to the initial one. It is concluded that in triclinic and monoclinic crystals with a quadratic effect the field can always produce rotation and deformation of the indicatrix, which depend on the field strength. In orthorhombic crystals the indicatrix is deformed without rotation if the field is along crystal axes. If the field is not along an axis the indicatrix is deformed and rotated, depending on the field. In tetragonal,

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L 15780-66

ACC NR: AP5026917

trigonal, and hexagonal crystals the action of the field in the direction of the optic axis causes deformation without rotation, the crystal remaining uniaxial. If the field is not along the optic axis the crystals become biaxial. Except for special directions, which are different in different classes of these crystals, the rotation of the indicatrix is field-dependent. In cubic crystals of the  $3/2$  and  $6/2$  classes the crystals become biaxial except when the field is along the [111] direction. When the field is along this direction the crystal remains uniaxial with the axis along the [111]. In the cubic crystal classes  $\bar{3}/4$ ,  $3/4$ , and  $\bar{6}/4$  the quadratic effect differs from the effect in the previous classes, the crystal remaining uniaxial when the field is along the [110] direction. In isotropic media the Kerr effect is observed; the latter is field-independent and the medium becomes uniaxial with the optic axis along the field direction. The results make it possible to determine the quadratic electro-optical coefficients of a crystal and for piezoelectric crystals to separate the linear effect from the quadratic one which occurs in strong fields. Orig. art. has: 12 pages of formulas.

SUB CODE: 20/ SUEM DATE: 09Nov64/ ORIG REF: 008/ OTH REF: 007

Card 2/2 11/9 S

VLOKH, O.O. [Vlokh, O.O.]; LUTSIV-SHUMSKIY, L.F. [Lutsiv-Shums'kyi, L.P.]

Dispersion of the coefficient  $r_{63}^1$  of the true electro-optical  
effect in  $\text{NH}_4\text{H}_2\text{PO}_4$  crystals. Ukr.fiz.zhur. 10 no.10;1119-1122  
O '65. (MIRA 1961)

1. L'vovskiy ordena Lenina gosudarstvennyy universitet im.  
Iv.Franko. Submitted November 28, 1964.

L.7988-66 ENT(d)/ENT(1)/EEC(k)-2

ACC NR: AP5026542

SOURCE CODE: UR/0286/65/000/019/0085/0085

AUTHORS: Vlokh, O. G.; Zheludev, I. S.; Shamburov, V. A.

ORG: none

TITLE: Electrooptical modulator. Class 42, No. 175272

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 85

TOPIC TAGS: electrooptic effect, electric field

ABSTRACT: This Author Certificate describes an electrooptical modulator consisting of crossed polarizers between which is situated a crystal in an electric field. The direction of the electric field is parallel to the direction of light and the axis of symmetry. To eliminate the treatment of the crystal surface and the influence of temperature and moisture of the surrounding medium on its performance and also to eliminate turning the optical axis through an angle of 22.5° under nonresonance condition, use is made of a pentaerythritol crystal.

SUB CODE: OP/ SUBM DATE: 26Jan63

Card 1/1

UDC: 621.376.9

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

SHAMBUROV, V.A.; VLOKH, O.G.

Electrooptical effect in crystals and its applications. Radiotekh.  
i elektron. 9 no.3:505-513 Mr '64. (MIRA 17:4)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

BELYAYEV, L.M.; VLOKH, O.G.; GIL'VARG, A.B.; DOBRZHANSKIY, G.F.; NETESOV,  
G.B.; SHAMBUROV, V.A.; SHUVALOV, L.A.

Linear electrooptical effect in crystals of hexamethylenetetraamine (urotropine) C H N . Kristallografiia 8 no.3:482-483  
(MIRA 16:11)  
My-Je '63.

1. Institut kristallografi AN SSSR.

L 13123-66 EWT(1)/EEC(k)-2

ACC NR: AP5026918

SOURCE CODE: UR/0185/65/010/010/1119/1122

AUTHORS: Vlokh, O. H. (Vlokh, G.); Lutsiv-Shums'kyy, L. P. (Lutsiv,  
Shumskiy, L. F.)ORG: L'vov Order of Lenin State University im. I. Franko (L'vivs'kyy  
ordena Lenina der-huniversitet)TITLE: The dispersion of the  $r_{63}^t$  coefficient of the true electro-optical effect in  $\text{NH}_4\text{H}_2\text{PO}_4$  crystals

SOURCE: Ukrayins'kiy fizichnyy zhurnal, v. 10, no. 10, 1965, 1119-1122

TOPIC TAGS: ammonium phosphate, electrooptic effect, piezoelectric crystal, photoelasticity

ABSTRACT: A static method with application of mechanical stresses was used to obtain the dispersion of the piezo-optical stress coefficient  $\pi_{66}$  and the  $r_{63}^t$  coefficient of the true electro-optical effect in the visible spectrum. An UM-2 monochromator served as the source of monochromatic light; the detector was a FEU-29 photomultiplier with a M-95 microammeter. The measurements were conducted at room temperature. A special device provided the uniform compression of the ADP crystal along the [110] direction of a sample cut in the form of a right prism

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L 13123-66

ACC NR: AP5026918

13.243 mm along the [110], 17.48 mm along the [110], and 11.093 mm along the [001]. The values of  $r_{63}^1$  at a wavelength of 556 m $\mu$  obtained by the static method are in good agreement with those obtained by the dynamic method at frequencies somewhat higher than the fundamental resonance frequency. The agreement of these results confirms the reliability of both methods and the phenomenological connection of the electro-optical properties of crystals with their piezo-electric and photo-elastic properties. Orig. art. has: 4 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: 28Nov64/ NR REF SOV: 003/ OTH REF: 003

Card

2/2 HW

VLOKH, T.V.; SHIKHINA, L. Ye.

Hemagglutination reaction in the diagnosis of dysentery.  
Zhur. mikrobiol., epid. i immun. 43 no. 1:25-28 Ja '66  
(MIRA 19:1)  
1. Lvovskiy institut epidemiologii, mikrobiologii i gigiyeny  
i 4-ya Detskaya infektsionnaya bol'ница. Submitted January 4,  
1964.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

ACCESSION NO.: A74045419

2009 RELEASE UNDER E.O. 14176

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

L 22609-65  
ACCESSION NR: AP4045439

It is noted that organophosphorus polymers are of interest owing to their chemical, fire, and heat resistance, and their transparency. Block polymerization was carried out in the presence of azobisisobutyronitrile at 60°C for 10 hr. In order to explain changes in the properties of the copolymers in the course of the copolymerization, the crystallinity of the samples was investigated as a function of the phosphorus content of the macromolecule. The crystallinity index was determined by the method of Hermans and Weindlinger. X-ray diffraction patterns showed that the copolymers have a low degree of order in the molecules. The crystallinity index decreased with increasing phosphorus content. This was interpreted in terms of differences in the reactivity ratios of the two monomers. Orig. art. has: 2 tables, 1 formula, and 1 figure.

ASSOCIATION: Lodzinskiy politekhnicheskiy Institut (Lodz Polytechnic Institute)

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

L 12609-65  
ACCESSION NR: AP4045439

SUBMITTED: 19Feb64

ATD PRESS: 3108

ENCL: 00

SUB CODE: 4T OC

NO RFF Sov: 001

OTHER: 011

Card 313

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

KARLICEK, V.; VLKOVA, V.; VOJACEK, V.

Coronography under experimental conditions. I. Technic. Plzen.  
lek. sborn. 24:33-36 '64

1. Chirurgicka klinika lekarske fakulty Universiteta Karlovy v  
Plzni (prednosta: doc. dr. J. Gwinka) & Ustredni RTG oddeleni  
(prednosta: doc. dr. Z. Chudacek).

VLOSOV, ANATOLIY ALEKSANDROVICH

N/5  
613.67  
.v8

MAKROSKOPICHESKAYA ELEKTRODINAMIKA (MACROSCOPIC ELECTRODYNAMICS)  
MOSKVA, GOSTEKHIZDAT, 1955.

228 P.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

VLOSOV, V., polkovnik

Tanks in direct infantry support. Voen.vost. 39 no.5:28-31 Ny '62.  
(MTPA 17/2)

(Tank warfare)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

*crt**13*

Environmental conditions in the mercury mine of Idria.  
V. B. Vlouk, M. Pugak, and Z. Topolnik (Inst. Ind. Hvg.,  
Zagreb, Yugoslavia). *Brit. J. Ind. Med.* 7, 168-70 (1950).  
—In the Idria mines of Yugoslavia, Hg occurs as cinnabar  
(HgS, I) and as native quicksilver (II). The av. Hg content  
of the ore is 0.7%. Mining II is one of the most dan-  
gerous occupations in Idria. Where I alone is dug, there is  
no hazard because of its slight solv. Hg poisoning hazards  
arise during roasting of the ore and during filling steel bottles  
with Hg for transport. During 1946-1950, there were 27-  
93 cases annually of subacute, chronic, or chronic-stationary  
Hg poisoning. Hg concns. in mg./cu. m. were 0.05-5.0 in  
a pit where I was won, 0.05-0.50 in a pit where II occurred  
beside I, and 0.17-1.1 in the smelting plant. Existing and  
recommended protective measures are described.  
Marion Horn Peskin

*157*

WINKLER, A.; UJHAZY, V.; VLAVSKA, N.; CERNY, V.; SANDOR, L.

The role of albumin in the action of chloralkylamine. Neoplasma 8  
no.4:357-362 '61.

1. Oncological Research Institute, Bratislava, Czechoslovakia.  
(ALBUMINS pharmacol.)  
(NITROGEN MUSTARDS pharmacology)

VITAVSKY, J.

Fetal mortality due to abnormal uterine contractions. Cesk.gyn. 15  
no.11:744-751 1950. (CLML 20:6)

1. Of the Obstetric-Gynecological Department of the State Regional Hospital in Jicine (Head--Josef Vltavsky, M.D.).

VLTAVSKY J., MARSALEK J.

Kymograficka insuflace pri diagnostice tubarnej sterility. /Kymographic  
insufflation in the diagnosis of tubal sterility/ Cesk. gyn. 15:4-5  
p. 237-46.

1. Of the Obstetrical and Gynecological Clinic, Uradec Kralove  
(Head-Prof. Jan Marsalek, M.D.).

CLML 19, 5, Nov. 50

VLTAVSKY, M.

What did the Leipzig Fair bring to welders? p. 22.  
(Zvaranie, Vol. 4, no. 1, Jan. 1955, Praha.)

SO: Monthly List of East European Accession, (EEAL). LC, Vol. 4,  
No. 11, Nov. 1955, Uncl.

VLTAVSKY, MILAN, inz.

Thermal conditions in the resistance projection welding in a  
welding press. Zvaranie 10 no.12:358-363 D '61.

1. Vyskumny ustav zvaracsky, Bratislava.

VL "AVSKY", Nitra, Slovakia.

Distribution and values of current in multipoint resistance welding.  
Zvarenia 13 no. 9:281-289 5 '64.

1. Research Institute of Welding, Bratislava.

VLTAVSKY, Milan, inz.

Resistance welding in heavy-duty welding presses. Zvaranie 11  
no.10:280-284 0 '62.

1. Vyskumny ustav zvaracskej, Bratislava.

44550  
8/137/62/000/012/069/085  
AOC6/A101

1. 23.00

AUTHOR: Vltavský, Milan

TITLE: Resistance pressure welding in the production of valves

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 35 - 36, abstract  
12E216 ("Zváranie", 1962, v. 11, no. 7, 199 - 202; Czech; summaries  
in Russian, German and English)

TEXT: An increase in the power of internal combustion engines causes the necessity of raising the heat resistance of valves. Therefore 702-D grade steel was replaced by the AKR grade. The chemical composition of AKR and 702-D steels is, respectively (in %): C 0.45 and 0.45; Mn 0.60 and 0.40; Si 1.50 and 3.15; Cr 12.5 and 8.5; W 2.2 and 0; Ni 12.5 and 0; Mo 0 and 0.30. However, the raised heat resistance increased the production costs of the valves, reduced the roasting ability of the steel and complicated the production techniques. Hard-facing of the valve butt, which contacts the cam of the distribution shaft, did not yield the required hardness  $R_o$  58, even when stellite was used for hard-facing, since during hardfacing the base metal is thoroughly mixed with the

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S/137/62/000/012/059/085

A006/A101

Resistance pressure welding in the...

built-up metal. The author has developed a method of resistance pressure welding of "Poldi 2002" steel plates onto "AKR" steel valve butts. The hardness of the butt increased even to 62 R<sub>c</sub>; however the high production costs of heat resistant steel valves were not reduced. Therefore the author has developed methods of welding only heat resistant steel rings onto the valve seat, which is subjected to maximum wear at high temperatures. The rings to be welded, were turned out of a nimonik type alloy with about 80% Ni and 20% Cr. The valve body was made of 702-D steel. The combination of these two materials is very complicated from the viewpoint of their physical and chemical properties, in particular, because the nimonik alloy goes over from the solid to the liquid state practically without a plastic state. Moreover, the ohmic resistance of nimonik alloy is higher than that of 702-D steel. These peculiarities require a thorough study of supplying the welding current, of the welding conditions, preparation of the parts for welding, etc. Long-lasting tests of valves with rings welded onto the seats, were carried out at full engine power. The durability of the valves until burning-through of the seat, when nimonik alloy rings were used, increased by

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Resistance pressure welding in the...

8/137/62/000/012/069/085  
A006/A101

390% as compared with 702-D steel valves. The described method was brought into use in the Czechoslovakian automobile industry.

I. Vrbenskiy

[Abstracter's note: Complete translation]

Card 3/3

12300

Z/056/62/019/001/010/012  
I037/I237

AUTHOR: Vltavsky, M.

TITLE: The hydraulics in resistance welding machines

PERIODICAL: Přehled technické a hospodářské literatury. Hutičtví a strojírenství, v. 19, no. 1, 1962, 47

TEXT: The continuously increasing usage of hydraulic steering of resistance welders and its advantages, especially the accurate welding pressures and speeds. Simple construction of the steering arrangement, minimal maintenance costs. Description of some steering systems. There are 4 photos, 9 drawings and 1 reference.

HS 62-574. 1961 VIII, Zváranie (Welding) 10, no. 8, 232-237

[Abstracter's note: Complete translation.]

✓B

Card 1/1

VLTAVSKY, Milan, inz.

Thermal conditions in resistance projection welding in a welding  
press. Zvaranie 10 no.11:322-326 N '61.

1. Vyskumny ustav zvaracsky, Bratislava.

1.2300  
S/137/62/000/003/166/191  
A160/A101

1.2300

AUTHOR:

Vltavský, M.

TITLE:

The hydraulics of resistance-welding machines

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 39-40, abstract  
3E232. (Zváranie, 1961, 10, no. 8, 232 - 237, Czech; Russian,  
English and German summaries)

TEXT: The pneumatic drive proves to be inefficient under severe operational conditions, especially when high upsetting speeds and fast pressure changes are required. In such cases, the pneumatics should be combined with a hydraulic control. For instance, high upsetting pressures are obtained with the help of pneumatic-hydraulic reducers. However, such an indirect solution proves to be complicated and is connected with the necessity of accelerating large masses. The problem of quickly and accurately changing pressures can also not be solved without the help of hydraulic controls. In this connection, the pneumatic control is more and more replaced by the hydraulic control which is more efficient and reliable. When designing a hydraulic control, it is aimed to set up a minimum number of control elements and to unite their functions. In addition, it is aimed to use,

Card 1/2

The hydraulics of resistance-welding machines

S/137/62/000/003/166/191  
A160/A101

if possible, pig-iron piston rings. Although they need more space than collar packings, the piston rings are more reliable and economical. A report is also presented on a number of other principles of designing hydraulic controls for resistance-welding machines. A detailed investigation is especially presented of the hydraulic control of the multi-electrode VUS-MB 60 spot-welding machine. The hydraulic control of the VUS AZR 18/23 semi-automatic machine for welding high-strength reinforcements has a total of 2 pumps and 8 control elements and is 100 % more efficient than the corresponding up-to-date model from the Federal Republic of Germany, provided with 4 pumps and 18 control elements.

Ye. Greyl'

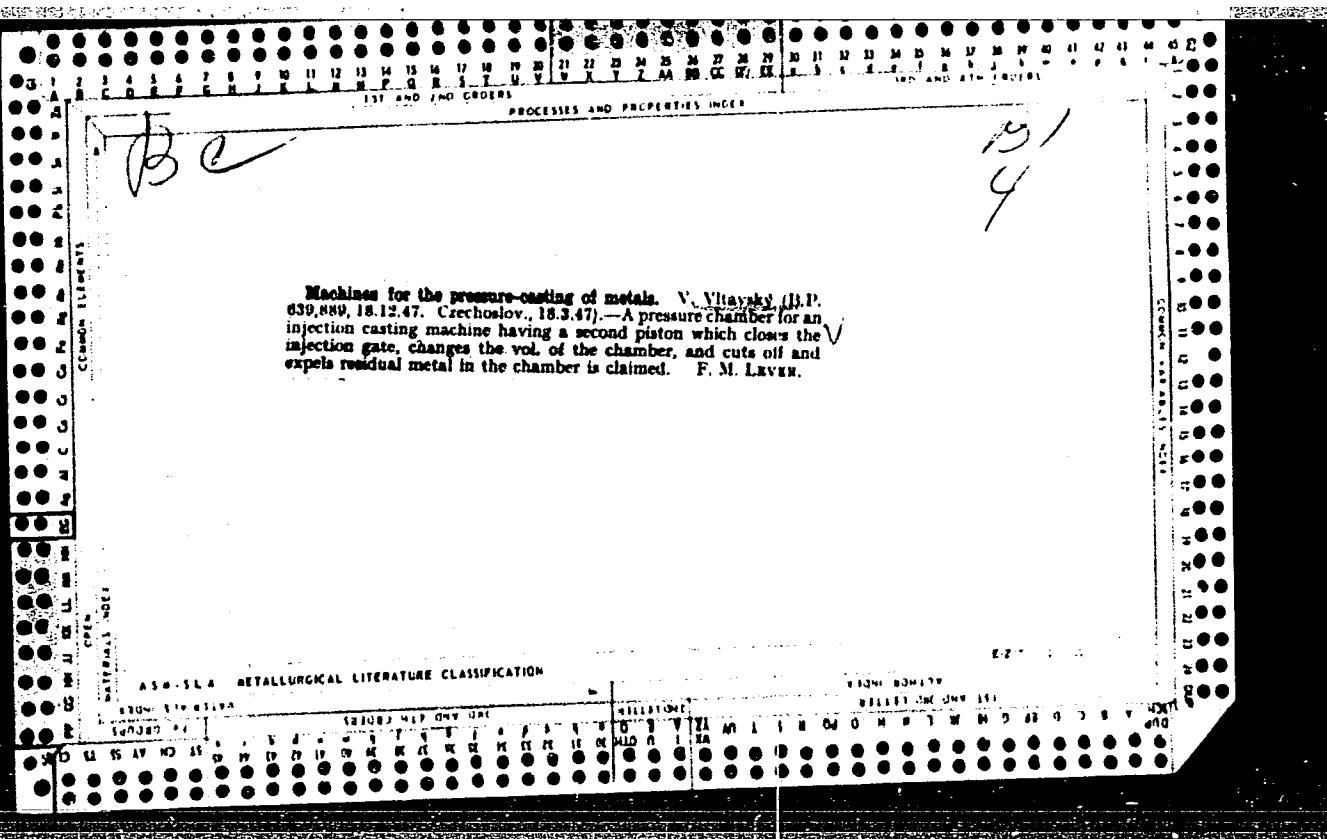
[Abstracter's note: Complete translation]

Card 2/2

VLTAVSKY, V.

Hydraulic drives, p. 129, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi)  
Praha, Vol. 3, No. 4, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1955



VLTKEVICH, V. V.

IA 12T100

USSR/Mathematics, Applied  
Spectra

Mar 1946

"Frequency Spectrum of an Interference Close to  
and Far from Its Source," V. V. Vltkevich, 2 pp

"Zhur Tekh Fiz" Vol XVI, No 3

Distribution of frequency ( $\omega$ ) according to the  
following relation:

$$F(\omega) = \frac{1}{\pi} M(x) \exp(-i\omega x) dx$$

12T100

VLUCHEK, I. [Vlcek, I.] (Praga)

New agricultural machines in Czechoslovakia. Mashinostroenie  
11 no. 9:45-46 S '62.

VLUCHKOV, Petko M., dots. inzh.

Optimum vapacity of step-down substations. Tekhnika Bulg  
ll no.9:328-332 '62.

1. Mashinno-elekrotekhnicheski institut.

VLUCHKOV, Petko M., dots. inzh.

Optimum vapacity of step-down substations. Tekhnika Bulg  
11 no.9:328-332 '62.

1. Mashinno-elektrrotekhnicheski institut.

VLUCHKOV, Petko, inzh.

Optimum number of transformer posts for inhabited places in  
computing the section of conductors after the permissible tension  
loss. Elektroenergiia 13 no.2:8-12 F '62.

1. Mashinno-elekrotekhnicheski institut.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

VLUCHKOV, Petko, inzh.; KALAIIDZHIEV, Boris, inzh.

Application of direct current models for investigating the electric systems. Tekhnika Bulg 10 no.8:7-9 '61.

(Electric lines)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

KHRISTOV, K.A.; VLUCHKOV, P.M.

Economic section and economic density of the current of electric  
conductors. Godishnik mash elekt 7 no.2:5-17 '60. (publ. '61).

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

VLUCHKOV, P.M.; VASILEV, N.I.; GENKOV, N.T.

Computation of the low and average voltage disconnected networks  
according to the minimal loss of energy. Godishnik mash elekt 13  
no.2:49-58 '63 [publ. '64]

VLYUSHIN, V.Ye.

Deriving approximate formulas for the determination of reservoir pressure reduction in the exploitation of circular wells with varying yield in elastic drive. Trudy MINKHiGP no.48:67-73 '64.  
(MIRA 18:3)

CZECHOSLOVAKIA

HORAK, J., of the Chair of Military Internal Medicine and Radiobiology (Katedra volecne interny s radiobiologii), and Military Physical Culture Medicine (Vojenske telovychovne lekarstvi), VILDU [not identified, probably a military institute], Hradec Kralove.

"Circulatory and Respiratory Response in Boxers During An Adequate Laboratory Load"

Prague, Casopis Lakaru Ceskych, Vol CII, No 16, 19 April 63,  
pp 433-435.

Abstract [Author's English summary, modified]: Examined are changes in the circulation and respiration of boxers training with a large bag (3 three-minute rounds with one-minute breaks among them). A bicycle ergometer was used for comparison. The value of the respiratory oxygen equivalent was used as criterium. The recovery period after the adequate load is much more rapid. The hypotonic type of pulse rate and blood pressure confirmed conclusions reached as a result of an analysis of]

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CZECHOSLOVAKIA

HORAK, J., of the Chair of Military Internal Medicine and Radiobiology (Katedra volecne interny s radiobiologii), and Military Physical-Culture Medicine (Vojenske telovychovne lekarstvi), VLVDU [not identified, probably a military institute], Hradec Kralove.

"Comparison of the Functional Efficiency of the Blood Circulation and Respiration in Boxers, Skiers, and Swimmers"

Prague, Casopis Lekaru Ceskych, Vol CII, No 16, 19 April 63,  
pp 430-432.

Abstract: The comparison showed no substantial differences among the three groups. Swimmers had the highest index of vital capacity. Boxers can hold their breath longer. Under heavy work load the differences tend to increase. Lower extremities are better developed in skiers and swimmers. Twelvereferences, including 5 Czech.

l/l

VLYAKOV, C. S.

Sep/Oct 53

USSR/Geology -Tectonics

"General Structural Subdivision of the Western Oblasts of the Ukrainian SSR," C. S.

Vlyakov

Iz Ak Nauk SSR, Ser Geol, No 5, pp 119-123

The author divides the western oblasts of the Ukrainian SSR into tectonic regions which distinguish the basic structural units and their more detailed subdivisions, zones, and subzones.

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VLYUSHIN, V.Ye.; KHARIN, O.N.

Deriving simple approximate formulas characterizing the operation  
of a multizone well after its start with constant bottom pressure.  
Izv. vys. ucheb. zav.; neft' i gaz 7 no.8:83-87 '64.

(MIRA 17:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
imeni akademika Gubkina.

SHCHELKACHEV, V.N.; VLYUSHIN, V.Ye.; KHARIN, O.N.

Deriving standard working formulas for the determination  
of the pressure in a bounded bed in an elastic regime. Izv.  
vys. ucheb. zav.; neft' i gaz 7 no.11:55-60 '64.  
(MIRA 18:11)  
1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlen-  
nosti im. akad. I.M. Gubkina.

VLYUSHINA, A.A., Cand. Med. Sci--(disc) "Surficial anatomy and ~~the~~ variants  
of structure <sup>the</sup> ~~Wells~~ ~~ring~~." Chernovtsy, 1958. 19 pp (Chernovtsy  
State Med Inst), 200 copies (EL-44-58, 123)

- 69 -

SHCHELKACHEV, V.N.; VLYUSHIN, V.Ye.

Further simplification of approximate formula for calculating pressure decrease at the w<sub>10</sub> of an enlarged hole started with a constant production rate in elastic drive. Izv. vyc. ucheb. zav. neft' i gaz 6 no.7.77-83 '63. (MIRA 17:8)

1. Moskovskiy institut neftekhimicheskoy i gazovey promyshlennosti imeni akademika I.M. Gubkina.

SHCHELKACHEV, V.N.; VLYUSHIN, V.Ye.

Simplifying calculations of reservoir pressure in the operation  
of a circular line in an elastic drive. Izv.vys.ucheb.zav.; neft'  
i gaz 6 no. 12:81-85 '63. (MIRA 17:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
im.akademika I.M.Gubkina.

VLYUSHIN, V.Ye. [Vliushyn, V.IE.] (Moskva)

Computation of some improper integrals encountered in solving  
problems of a nonstationary field of sources and flows.

Frykl. mekh. 10 no.4:435-439 '64.

(MIRA 17:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti.

VMANSKIY, M.M.

X-ray study of crystals of some nitro and halogen derivatives of benzene and naphthalene. G. A. Gol'der, G. S. Zhdanov, M. M. Umanskiy, and V. P. Glushkova (L. Ya. Karpov Phys.-Chem. Inst., Moscow). *Zhur. Fiz. Khim.*

*26*, 1259-85 (1952).—The 1,8-dichloronaphthalene crystallizes from hexane in the form of elongated transparent platies,  $m. 87^\circ$ ,  $d = 1.51$ . Each plate has a  $110^\circ$  angle between the edges of rhombic prisms  $c[001]$  and  $m[100]$ . The unit cell has  $a = 11.5$ ,  $b = 10.8$ ,  $c = 7.9 \text{ kX}$ ,  $d(\text{x-ray}) = 1.53$ ; the space group  $C_{\bar{1}} = P2_1/C$ , 4 mols. per cell. It was detd. that  $[h0l]$  is present only when  $l = 2n$ , and  $[0kl]$  when  $k = 2n$ . Colorless crystals of 2,6-dichloro-1-nitrobenzene (from cyclohexane) have  $a[100]$ ,  $b[010]$ ,  $c[001]$ ,  $k[101]$ . It crystallizes with 4 mols. in a monoclinic cell with  $a = 5.82$ ,  $b = 9.33$ ,  $c = 14.2 \text{ kX}$ ,  $\beta = 91^\circ$ ,  $d = 1.46$ ,  $d(\text{x-ray}) = 1.61$ , its space group  $C_{\bar{1}} = P2_1/m$  or  $C_{\bar{1}} = P2_1$ . Monoclinic crystals of 2,4,6-tribromo-1-nitrobenzene crystallize from chloroform. The unit cell has  $a = 9.8$ ,  $b = 12.4$ ,  $c = 9.8 \text{ kX}$ ,  $\beta = 127^\circ 20'$ ,  $d = 2.46$ ,  $d(\text{x-ray}) = 2.54$ , and contains 4 formula units. It was estd. that  $[hkl]$  is present only when  $k + l = 2n$ ,  $[h0l]$  when  $k = 2n$  and  $l = 2n$ , and the  $[0kl]$  is present only when  $k = 2n$ . The crystal has space group  $C_{\bar{1}} = A2/a$  or  $C_{\bar{1}} = Aa$ . The benzophenone crystals from hexane have well-defined facets of rhombic prisms:  $a[100]$ ,  $b[010]$ ,  $c[001]$ ,  $m[110]$ ,  $d[101]$ ,  $k[201]$ , and rhombic dipyramids  $l[111]$ . Its unit cell has  $a = 8.0$ ,  $b = 10.2$ ,  $c = 12 \text{ kX}$ ,  $d$ . (by flotation method) = 1.1,  $d(\text{x-ray}) = 1.05$ ; 4 mols. per cell with space group  $D_{\bar{1}} = P2_12_12_1$ . The  $[h00]$  is present when  $k = 2n$ ;  $[0kl]$  when  $k = 2n$ ;  $[00l]$  only when  $l = 2n$ . Rhombic crystals of 1,3,5-trinitrobenzene have the following dimensions of a

unit cell:  $a = 13.8$ ,  $b = 27.0$ ,  $c = 9.8 \text{ A}.$ , with 16 formula units in each. The space group  $D_{\bar{1}} = P_{\bar{1}}$ . The golden-colored needles of 1,3,6,8-tetrinitronaphthalene (I) (from EtOH) gave complicated x-ray diffraction probably owing to "regular polysynthetic formation." X-ray study of these crystals at  $-110^\circ$  eliminated the possibility of interferences due to thermal vibrations. Crystals obtained from other solvents (e.g.  $\text{AmOAc}$ , ligrolin,  $\text{AcOH}$ ) gave similar interferences in x-ray diagrams. Cryst. from the mixts. of acetone with benzene or with toluene led to formation of new compds., which were very unstable in the air. By choosing planes without diffuse spots these investigators were able to show that the unit cell of I has  $a = 28.3$ ,  $b = 7.78$ ,  $c = 5.54 \text{ kX}$ , and when  $d = 1.64$  there are 4 mols. in a cell. For such a cell the  $[h0l]$  was estd. to be present only at  $h = 2n$ ,  $[0kl]$  when  $k + l = 2n$ . On these bases the space group can be assigned:  $D_{\bar{1}} = Pna\bar{m}$  or  $C_{\bar{1}} = Pnc2$ . The x-ray study of 2,4,6-trinitrotoluene (II), with interferences analogous to I, is in disagreement with E. Hertel's expts. (*C.A.* 27, 5278). By choosing only well-defined diffraction patterns it was possible to det. that the unit cell of II has 4 mols. with  $a = 20.2$ ,  $b = 6.2$ ,  $c = 7.7 \text{ kX}$ , and the space group  $C_{\bar{1}} = P_{\bar{1}}/m$  or  $C_{\bar{1}} = 2$ . It is concluded that in II, as in I, no true monoclinic crystals are formed.

Anatole P. Kotlobv

YASIVFVICH, V., kand.arkhitektury; PROTSENKO, O., arkitektor, prepodavatel';  
PORSIN, Yu., kand.tekhn.nauk, dotsent; KAMYSHNY, N., doktor tekhn.-  
nauk, prof.; LEVIN, I., kand.tekhn.nauk, dotsent; FRIDKIN, B., student;  
SEKACHEV, Yu., student; MILEVSKIY, V., student; VMIRNOV, A., student;  
KORNFEYEV, S., studentka; VYGODSKIY, B., student; MOSHKOV, V., student

What kind of program for the course in "Industrial Design?"

Opinion of teachers and students. Tekh.est. no.5:20-21 My '65.

(MIRA 18:6)

1. Kafedra náchertatel'noy geometrii i kafedra grafiki Lesotekhnicheskoy skóly imeni Kirova (for Porsin). 2. Moskovskoye vysshéye tekhnicheskoye uchiliashche imeni Baumana (for Kamyschnyy, Korneyeva, Vygodskiy, Moshkov). 3. Moskovskiy avtomekhanicheskiy institut (for Levin, Smirnov). 4. Leñingradskiy institut aviapriborostroyeniya (for Fridkin, Sekachev, Milevskiy).

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8

VMOCHKIN, V.A.: ~~SECRET~~

Hemorrhoids

Hemorrhoids and their therapy. Fel'd. I akush. No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October, UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

VMCCHKIN, V.A., FEIDSHER

Hemorrhoids

Hemorrhoids and their therapy. Fel'd. i akush. No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED

V.NAGY, Imre, dr., a muszaki tudomanyok kandidatusa

Kxamination of the unstable state of laminar seepage. Hidro-  
logiai kozlony 44 no.4:159-163 Ap'64

1. Vizgazdalkodasi Tudomanyos Kutato Intezet, Budapest; "Hidro-  
logiai Kozlony" szerkeszto bizottsagi tagja.

VNDRACEK, K.

"Professor Karel Sulc; an Obituary", P. 89 (VESTNIK, Vol. 17, No. 2, 1953,  
Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 3,  
Mar 1955, Uncl.

MASSIAR, Pavel, doc., MUDr.; VNEK, Jan, inz.

On hemoglobin. Pts. 16-17. Chem zvesti 17' no.5:346-358 '63.

1. Katedra biochemie, Lekarska fakulta, Universita P.J. Safarika,  
Kosice, Srubarova 57.

MASCIAR, P.; VNEK, J.

On isolation and crystallization of hemoglobin from Macaca rhesus  
monkeys. Bratisl. Lek. Listy 1 no.3:129-134 '62.

1. Z Katedry biochemie Lek. fak. Univ. P. J. Safarika v Kosiciach,  
veduci doc. MUDr. P. Masiar.

(HEMOGLOBIN chem) (MONKEYS blood)

MASIAR, P.; TELEHA, M.; VNEK, J.

CSSR

no academic degrees indicated

Department of Biochemistry, Medical Faculty, P.J. Safarik University, Kosice  
(for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, 1963,  
pp 271-274

"On Hemoglobin. XVIII. Several Corresponding Peptides Isolated from Tryptic  
Hydrolysates of the  $\alpha$ -chains of Human and Monkey Hemoglobin"

(3)

MASLAR, P.; TELEHA, M.; VNEK, J.

On hemoglobin. Pt. 18. Coll Cz Chem 28 no.1:271-274 Ja '63.

1. Department of Biochemistry, Medical Faculty, P.J. Safarik  
University, Kosice.

NEMEC, Pavel; BETINA, Vladimir; MIKO, Milan; VNEK, Jan

Antibiotic properties of lower fungi isolated from natural sources  
in Bulgaria. Biologia 15 no.2:117-121 '60. (EEAI 9:5)

1. Katedra technickej mikrobiologie a biochemie, Chemicka fakulta  
Slovenskej vysokej skoly technickej, Bratislava.  
(BULGARIA--FUNGI) (ANTIBIOTICS) (PENICILLIN)

ZAIUKAYEV, L.P.; VENENKOVSKAYA, D.G.

Synthesis of derivatives of benzyl- $\alpha$ -carboxylic acid. Zhur.  
ob. khim. 34 no. 3:838-840 Mr '64. (MIRA 17:6)

1. Voronezhskiy gosudarstvennyy universitet.

VNUCHKOVA, V.A., kand.biologicheskikh nauk

Two interesting new formations in the interspecific  
hybridization of tomatoes. Agrobiologiya no.4:619-621  
(MIRA 14:7)  
Jl-Ag '61.

1. Institut genetiki AN SSSR.  
(Tomato breeding)

VNUCHKOV, V. A.

Interspecific hybridization of tomatoes. Izv. AN SSSR. Ser. biol.  
no. 3:438-445 My-Je '59. (MIRA 12:9)

1. Institute of Genetics, Academy of Sciences of the U.S.S.R.,  
Moscow. (TOMATO BREEDING)

VNUCHKOV A, V.A.

Change of heredity in tomatoes grafted by Cyphomandra. Trudy Inst.  
gen. no. 28:103-110 '61. (MIRA 14:11)  
(GRAFTING) (TOMATOES) (TREE TOMATO)

USSR / General Biology. Genetics.

B-5

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42856.

Author : Vnuchkova, V.A.

Inst : Not given.

Title : A Study of the Seed Descendants in Grafting of Tomato on Cyphomandra.

Orig Pub: Agrobiologiya, 1957, No 2, 49-57.

**Abstract:** Golden plant variety was grafted on cyphomandra for a number of generations. No morphological changes were found in the grafted plants nor in their fruits in the initial year of grafting. One or two fruits on the grafts germinated. Few, if any, seeds germinated. Plants from seeds of the initial grafting produced normal fruit and seeds, and from seeds of the second grafting, plants differing in morphology as well as in the character

Card 1/2

17

USSR / General Biology. Genetics.

B-5

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42856.

Abstract: of development. Some of these had low vigor, while others exceeded the control in their vigorous development. Plants from seeds of the third grafting were even more different: a portion of these suggested in their morphology plants of subspecies *Lycopersicum esculentum* ssp. *pimpinellifolium* Brezh. more so than subspecies *cultum* Brezh., according to the classification of D. D. Brezhnev.

Card 2/2

VLUCHCOVA, V.A., Cand. Biol. Sci. (diss) "Peculiarities of the <sup>Johnson</sup> ~~concent~~ of tomato plants obtained as the result of interspecific hybridization." Mos, 1959. 18 pp (Inst. of Genetics), 185 copies.  
(KL, 32-59, 102)

- 8 -

VNUCHKHOVA, V.A.

Specific effect of rootstock on the scion. Trudy Inst. gen.  
no.29:67-71 '62. (MIRA 16:7)

(Grafting) (Tomatoes)

VNUCHKOVA, V.A.

Studying the seed progeny of tomatoes grafted on the currant  
tomato. Agrobiologija no.2:49-57 Mr-Ap '57. (MLRA 10:5)

1. Institut genetiki Akademii nauk SSSR.  
(Tomato breeding) (Currant tomato)  
(Hybridization, vegetable)

VNUK, J.

Suitability of galvanic cells and batteries for storage.

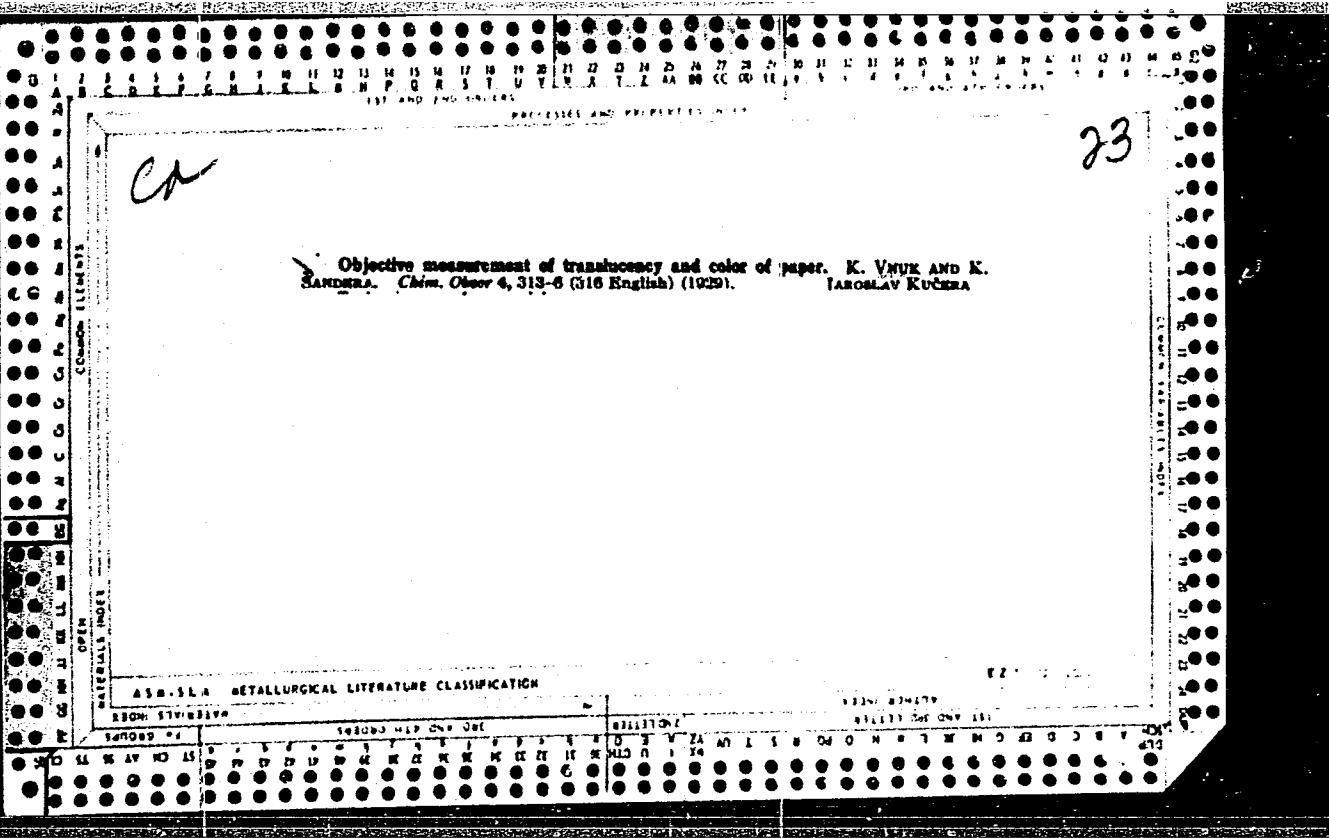
P. 248, (Sdlevaci Technika) Vol. 5, no. 8, Aug. 1957, Praha, Czechoslovakia

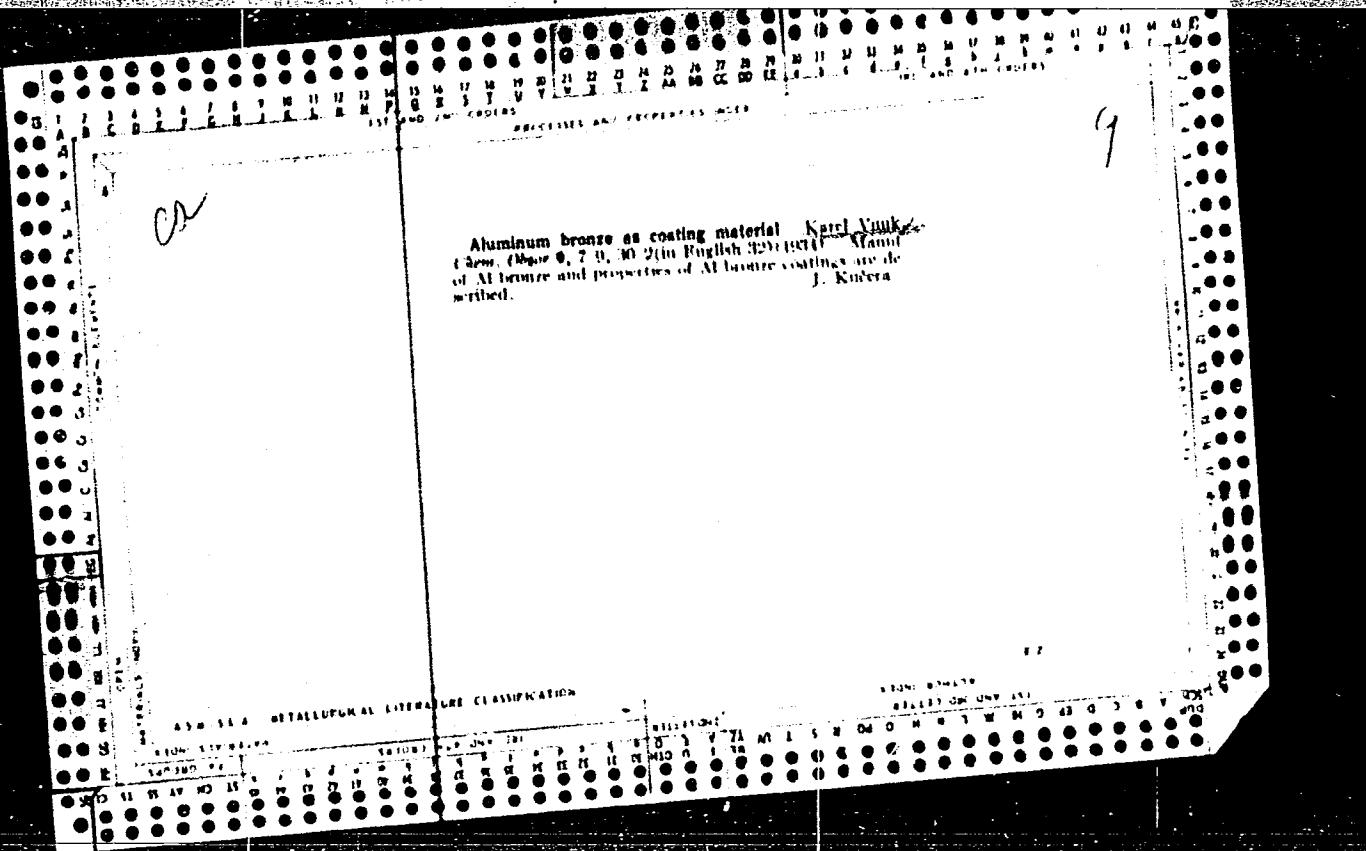
SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

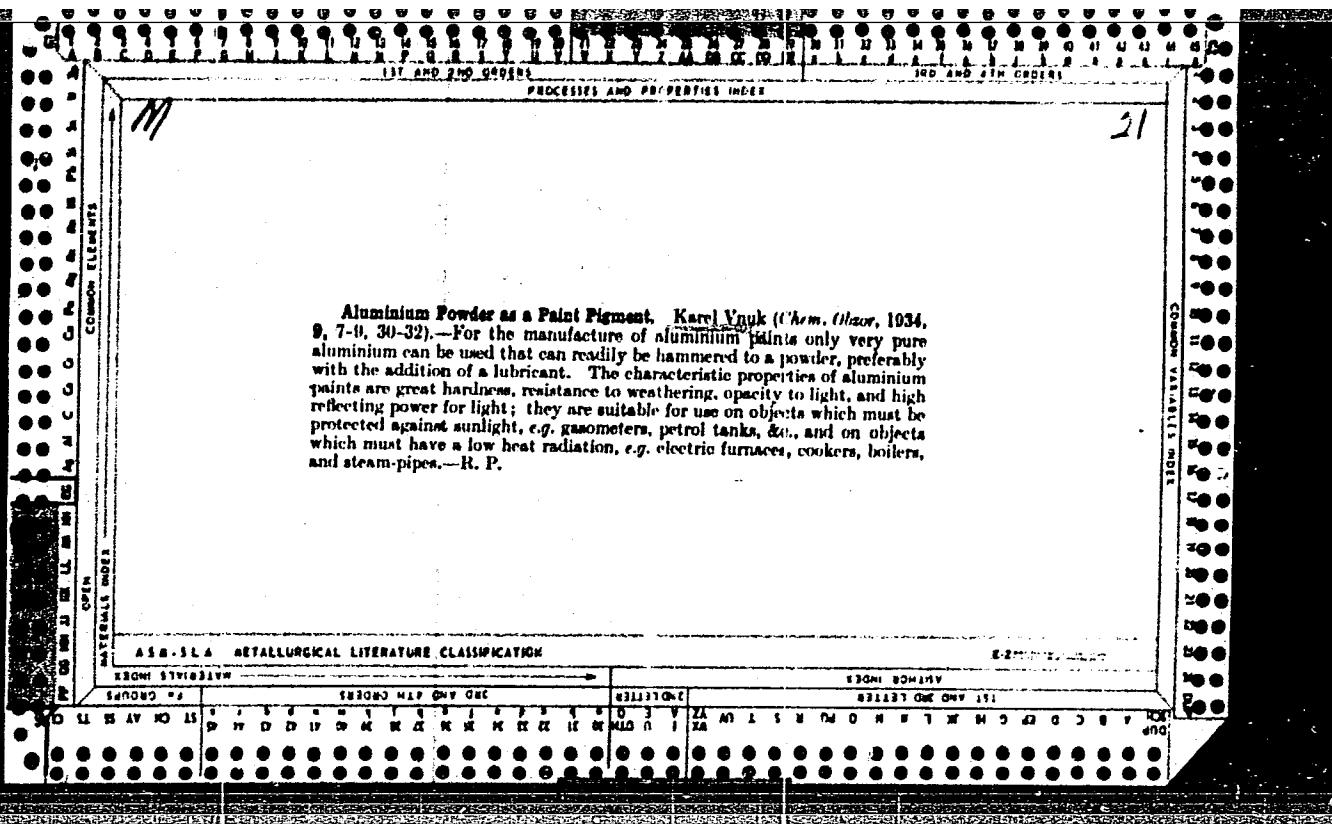
VNUK, J.

Dry-cell plate batteries. p.27. (Edelovaci Technika. Vol. 5, no. 1, Jan. 1957.  
Czechoslovakia)

SG: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.







HENKO, V., doc., inz., CSc.; HAMPL, J., prof., dr. inz.; VNUK, L., inz.

Contribution to the study of sorption and phosphorus  
freeing in gray-brown podzolic soil and podzolized soil.  
Rost výroba 9 no.11:1209-1216 N '63.

1. Vysoká škola polnáho hospodářstva, Nitra, fakulta agronomická,  
katedra agrochemie.

VNUK, N.

Adult Education

After the work day. V pom. profaktivu 14, No. 8, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

VNUK, N.

Large-scale chemistry of Krasnoyarsk. Sov. profsoiuzy 19  
(MIRA 17:1)  
no.22:12-13 N '63.

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CIA-RDP86-00513R001860320012-8

VNUK, N.

Treasure hunter. Sov. profsciuzny 19 no.7:8-9 Ap '63. (MIRA 16:4)  
(Metal cutting tools—Technological innovations)  
(Suggestion systems)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320012-8"

VNUK, Nikolay (Riga)

Voldemar Bush, Soviet worker. Sov. profsciuzy 17 no.23:21-23  
(MIRA 14:12)  
D '61.  
(Riga--Electrical industries--Technological innovations)

VNUK, Nikolay

High ceiling. Sov.profsciuz 18 no.22:11-12 N '62.

(MIRA 15:12)

(Kursk Magnetic Anomaly—Iron mines and mining)  
(Trade unions)

VNUK, Nikolay

High ceiling (to be concluded). Sov. profsoiuzy  
18 no.21:25-27 N '62. (MIRA 15:11)  
(Labor and laboring classes)

VNUK, Nikolay (g. Zheleznogorsk)

High ceiling. Sov. profsoiuzy 18 no.20:27-30 0 '62.

(Miners)

(MIRA 15:10)

VNUK, Nikolay (Moskva)

Origin of a heroic deed. Sov. profsoiuzy 18 no.5:13-15 Mr  
'62. (MIRA 15:3)  
(Moscow—Textile workers)

VNUK, Nikolay (g.Kalinin)

A difficult disposition. Sov.profsoiuzy 17 no.11:20-23 Je '61.  
(MIRA 14:5)  
(Textile workers)

V. N. KOU, A. A.

X(1), 1(4)  
 AUTHOR: Sokolova, O. I.  
 TITLE: Results of the Competition for the Best Improving Suggestion (Izlog konkursa na luchshie rasschishchitatorskoye predlozheniye)

S07/6-52-7-4/25

PERIODICAL: Godednya i kartografiya, 1959, Nr. 7, pp 17-21 (USSR)  
 ABSTRACT: In May 1959, the ordinary competition for the best suggestion in the field of topographic-meteorological data processing production was concluded at the Glavvodorstroy (General Hydroelectric and Water Power Construction) Ministry of Internal Affairs of the Soviet Union. A total of 20 suggestions, positive and negative, were submitted. The 1st prize of 5,000 rubles was awarded to V. A. Morosov and V. V. Gerasimov (Morskaya Kartograficheskaya Fabrika (Marine Cartographic Plant)) for the "Screwless Fastening of Atlas Blocks". The 2nd prize of 750 rubles was awarded to V. I. Tsaruk.

Third place (Izloga Onora) - 2) I. V. Gurevich, V. M. Yarushin, and V. P. Stepanov (MZhCh) for the Use of Standard Base (Izloga Onora). - 3) I. V. Gurevich, V. M. Yarushin, V. O. Rizorov, V. V. Ovchinnikov, O. D. Shul'kin, L. I. Markova, for the Improvement of the Manufacture of Coated Diaplates (MZhCh). 1) D. A. Larin (Voronezhskaya ACP (Voronezh ACP)) for the Reduction of Work in Evaluating the Accuracy of Asymetric Geodesic Networks by Means of Mechanical Shapers. 4) A. I. Golovanov (Leningradskaya ACP (Leningrad ACP)) for Light Geodetic Nets Formed by Electronic Computers. The 1st prizes of 500 rubles each were awarded to 1) L. I. Sharalina (Tula ACP) for "Establishment of Fixed Points by the Method of Thawing by Means of Vapor". 2) V. M. Oleshchitsky (Kazan ACP (Kazan ACP)) for Construction of an Electrified Trolley for Fiber Transport. 3) I. A. Kuzin (Novosibirsk ACP (Novosibirsk ACP)) for Variation in the Area of Paper (Novosibirsk ACP) for Photocopying by Computer. 4) V. P. Zarubin (Novosibirsk ACP (Novosibirsk ACP)) for Photocopying by Computer. 5) The 5-7 Nevez - 5) D. I. Matveev, V. V. Gurevich, Z. I. Aleksandrova, I. M. Tereshina, T. E. Kirilina and V. A. Mal'kov (Kirov ACP) for "Technique of the Compilation and Calculation (Algorithm) for Maps by the Photocell Method". 6) M. F. Gushchanin (Khabarovsk Kray) for "Aerographic Machine for Aerophotogrammetry and Photocartography" (Khabarovsk Institute).

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JOV6-59-7-4/25  
Results of the Competition for the Best Importing Objectives

(Sverd-Zapadnoye AGP (Northwest AGP))  
Equipment for Determining the Corrections of Converging and Diverging Lines with Auxiliary Tools for Determining the Curvature of the Image of the Geodetic Line and of the Spherical Excesses. 5) V. O.  
MUMETIK (Moskovskoye AGP (Moscow AGP)). Variation of the Construction of the Halograph. 6) G. M. Shil'dandorov (Moskovskoye AGP). "Zero Thermometer For The Gravimeters of the Gal-in-type". 5) I. Popov (Moskovskoye AGP (Moscow AGP)). "Device for Cutting Aluminum". 6) I. Pishman and O. M. Grinberg (Moskovskoye AGP (Moscow AGP)). "Proportional Mechanism (Mechanism, M. A. Pashkevich and V. P. Gribanov (Minskaya Kartograficheskaya Fabrika (Minsk Cartographic Institute))). A Nonbranch Device for Mixing Offset Colors". 6) L. Gintsberg (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Institute)). "Device for Cleaning the Edges of Plate Glass". 7) A. A. Smirnov (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Institute)).  
a) "Mechanism for Indenting the Groove in the Glass". b) "Mechanism for Lifting the Trough With the Ball". 10) V. I. Durnichenko and S. A. Lomzhitskaya (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Institute)). "Automatic Switcher of Arc Lamp". 11) A. V. Vasiliyev (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Dissolveability of Light-sensitive Rubber Solution (Adhesive)".  
12) N. Tsar (Kievskaya Kartograficheskaya Fabrika (Kiev Cartographic Plant)). "Correspondence of the Stroke-segments on Topographic Maps With the Letters on the Machine Drawing Forces". 13) V. S. Zorkun (Moskovskaya Kartograficheskaya Fabrika (Riga Cartographic Plant)).  
On the Improvement in the Construction of Mechanisms for Pressing-on the Inkling Rollers and Friction Drums on the Offset Machines ("Planeete-Super-Kritika"). 14) A. N. Slavinskaya (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)).  
"National Method of Making Pictures of Printing Forms of Relief Printing on Tracing Paper for Printing Books on Offset Machines". 15) O. M. Jackozenski (Moskovskaya Kartograficheskaya Fabrika (Riga Cartographic Plant)).  
"Synchronization and Automation of the Stitching On and off of Arc Lamp and of the Shutter Pan in the Copying Department". 16) V. P. Al'kin (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Variation in the Technology of Making State of Outline Maps of the Fifth Class". 17) I. V. Tikhonova (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Preparation of Colloidal Silver on the Method of the Washed-out Relief on Lenape". 18) I. M. Diduchkin (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Method of the Coloration of the Colorless Ink by Means of the Change in Lipid on the Copying Process by Means of the Vacuum". 19) I. V. Matkina (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Offset Envelope". 20) N. N. Kurbat (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Device for Drying Papers on Great Machines". 21) N. M. Emel'yanitova (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Procedure for the Preparation, Preserving, and Plotting the Geographic Material on Maps to be Copied". 22) E. N. Birzakov (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Offset Machine". 23) Ya. F. Farber (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Regulation of the Width of the Offset Machine". 24) Ya. I. Lyubushanskiy and S. V. Matkina (Moskovskaya Kartograficheskaya Fabrika (Moskovskaya Kartograficheskaya Plant)). "Preserving the Method of Preparing the Silver Materie in Used Solutions".

Card 4/6

Card 5/6

Card 6/6

-7-

3 (2)

AUTHOR: Vnukov, A. A.

SCV/6-59-5-15/26

TITLE: Devices for the Tilting of the Box of the Graining Machine  
and for the Lifting of the Trough With the China Globules  
(Prisposobleniya dlya naklona yashchika kornoval'noy mashiny  
i pod'yema koryta s farforovymi sharikami)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 5, pp 98-55 (USSR)

ABSTRACT: In the paper under consideration a description is given of a design developed by the author for the tilting of the box of the graining machine. After the time required for graining, the operator, without any effort, by means of a handle turns the box by 180°, the box being lifted on one side and the globules rolling into the trough by themselves. Only then is the machine turned off and the plate is taken from the machine. Thereupon a new plate is introduced, and, by means of the handle, the box is brought back again into a horizontal position. Then the plate surface is covered with the globules. Usually the globules are taken from the trough and put onto the plate by hand. Here the author presents a novel design for the automatic lifting of the trough with the globules. The frame of the machine accommodates rails in the grooves of

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Devices for the Tilting of the Box of the Graining      SOV/6-59-5-19/25  
Machine and for the Lifting of the Trough With the China Globules

which moves a lever fastened to the trough. On the other hand, a rope is fixed to the trough, which, via a pulley on the ceiling, can be pulled by the operator. It is sufficient to pull the rope, the trough will then lift and the globules will by themselves roll into the box. There are 2 figures.

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VNUKOV, A.K., kand.tekhn.nauk

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CIA-RDP86-00513R001860320012-8

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